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Groundwater Assessment for the NW of Auja Tamaseeh Basin in Tulkarem Area, West Bank

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ABSTRACT

The study aims to assess groundwater in Auja—Tamaseeh basin in Tulkarem area—West Bank. A steady state calibration flow model as well as solute transport model were built using the visual Modflow software. A stress period of 10 years (2005 - 2015) was assigned to study its tendency to contamination. The model results show that there is a pollution risk due to the human activities in the area. The groundwater situation will be harmful if there is no action done by the water-decision makers to preserve the aquifers from deterioration and contamination.

KEYWORDS

Groundwater; Tulkarem; West Bank; Nitrate; Chlorite; Solute Transport Model

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